



**UNITED STATES DEPARTMENT OF COMMERCE
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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.
09/177,572	10/23/98	TERASHIMA	35.C13035

005514 LM02/0602
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NEW YORK NY 10112

EXAMINER

NGUYEN, K

ART UNIT PAPER NUMBER

2774

DATE MAILED: 06/02/00

Please find below and/or attached an Office communication concerning this application or proceeding.

Commissioner of Patents and Trademarks

Office Action Summary

Application No.

09/177,572

Applicant(s)

TERASHIMA ET AL.

Examiner

Kevin M. Nguyen

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136 (a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).

Status

- 1) ☐ Responsive to communication(s) filed on ____.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-12 is/are pending in the application.
- 4a) Of the above claim(s) ____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) ____ is/are allowed.
- 6) ☒ Claim(s) 1-12 is/are rejected.
- 7) ☐ Claim(s) ____ is/are objected to.
- 8) ☐ Claims ____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on ____ is/are objected to by the Examiner.
- 11) ☐ The proposed drawing correction filed on ____ is: a) ☐ approved b) ☐ disapproved.
- 12) ☐ The oath or declaration is objected to by the Examiner.

Priority under 35 U.S.C. § 119

- 13) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d).
- a) ☒ All b) ☐ Some * c) ☐ None of the CERTIFIED copies of the priority documents have been:
1. ☒ received.
2. ☐ received in Application No. (Series Code / Serial Number) ____.
3. ☐ received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.
- 14) ☐ Acknowledgement is made of a claim for domestic priority under 35 U.S.C. & 119(e).

Attachment(s)

- 15) ☒ Notice of References Cited (PTO-892)
- 16) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 17) ☒ Information Disclosure Statement(s) (PTO-1449) Paper No(s) 7.
- 18) ☐ Interview Summary (PTO-413) Paper No(s). ____.
- 19) ☐ Notice of Informal Patent Application (PTO-152)
- 20) ☐ Other: _____.

DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

2. Claims 1-12 are rejected under 35 U.S.C. 102(b) as being anticipated by Iwasaki (U.S. Patent No. 4,745,485).

3. As to claims 1, 6, 7 and 11, Iwasaki teaches a picture display device which includes the S/P converter 2 converts the serial video signal to a parallel signal for every eight bits. The parallel video signal converted by the S/P converter 2 is supplied to a latch circuit 3. The latch circuit 3 is supplied to frame memories 4 and 5, a latch circuit 6 and a P/S converter 8 (see figure 1, column 3, lines 18-29). Accordingly, the latch circuit 3 corresponds to the FIFO as claims.

4. As to claim 2, Iwasaki teaches frame memories 4 and 5 are controlled by the two-phase clock signal $\phi 1$ (fig. 2(d)) and $\phi 2$ (fig. 2(e)) provided from the timing control circuit 13 so that the write state and the read state of the stored content are selected alternately by the clock signal $\phi 1$. The write address counter 15 and the read address counter 16 and 17 are respectively make to count in synchronism with the clock signal $\phi 2$.

5. As to claims 3-5 and 8-10, Iwasaki teaches the serial clock frequency of the S/P converter 2 is equal to twice the serial clock frequency of the P/S converters 7 and 8. Since the video signal is serial data, the latter half of the n-1th frame and the first half of the nth are continuous (column 9, lines 54-64). The bit width of input data for every 8 bits by the S/P converter 2

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(column 4, lines 44-45) and the video signal of the first frame corresponding to the upper display area 11 the address thereof being 1FFFF (see figure 1, column 5, lines 48-54 and column 6, lines 28-35).

6. As to claim 12, Iwasaki teaches the driver 9 drives the liquid crystal display 10 (see figure 1, column 3, lines 51-52).

Conclusion

7. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

U.S. Patent No.	5,959,640	Ruddin et al
U.S. Patent No.	5,959,601	Ho et al
U.S. Patent No.	5,909,205	Furuhashi et al
U.S. Patent No.	5,977,943	Mano et al

8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kevin M. Nguyen whose telephone number is 703-305-6209. The examiner can normally be reached on Monday through Friday 8 am-5pm..

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Richard Hjerpe can be reached on 703-305-4709. The fax phone numbers for the organization where this application or proceeding is assigned are 703-308-9051 for regular communications and 703-308-9051 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-305-3900.

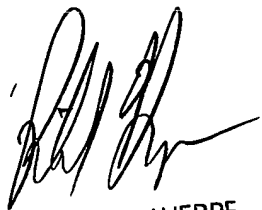
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Kevin M. Nguyen

May 15, 2000



RICHARD A. HJERPE
SUPERVISORY PATENT EXAMINER
GROUP 2700